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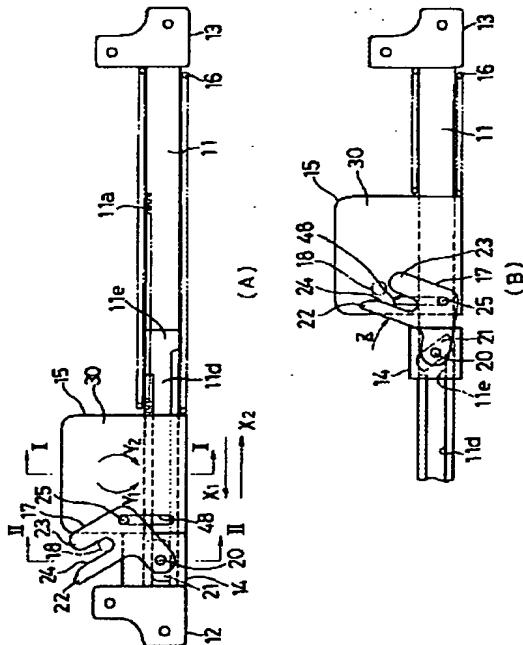
(74)代理人 奉理士 渡辺 昇

(54) 【発明の名称】 自動引き込み装置

(57) 【要約】

【目的】自動引き込み装置をスライド装置と別体にし、自動引き込み装置の取り付け位置の自由度を大きくする。

【構成】引き出しの底板に固定したガイドロッド11に、第1スライダ14と第2スライダ15を、周方向に回転不能で軸線方向にスライド自在に設ける。第2スライダ15の内部には制動機構を設ける。第1スライダ14にクラッチアーム17と回転子21を回転自在に設ける。回転子21はガイドロッド11の凹部11dを摺動する。凹部11d内においては回転子21は回転不能であり、凹部11eにおいて回転可能となる。クラッチアーム17に設けたピン25を、第2スライダ15の長孔48に移動可能に挿入する。第2スライダ15と支持ブロック13との間にスプリング16を設け、両スライダ14、15を支持ブロック12に接近する方向に付勢する。外箱の底板に、クラッチアームと係合離脱可能な係合ピン18を設ける。



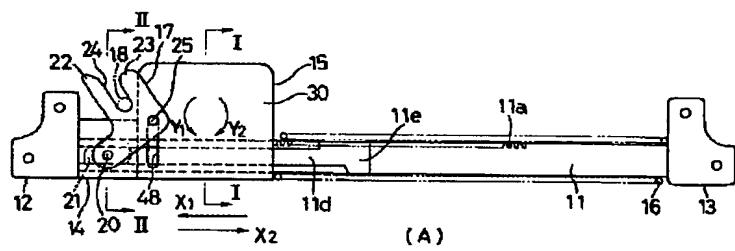
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【符号の説明】

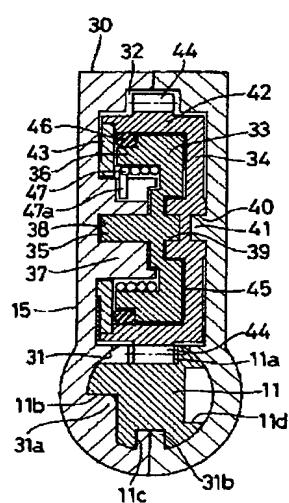
- 1 外箱(固定体)
- 2 引き出し(移動体)
- 10 自動引き込み装置
- 11 ガイドロッド(ガイド部材)
- 11d 凹部(案内路)

- 14 第1スライダ
- 15 第2スライダ
- 16 スプリング(付勢手段)
- 17 クラッチアーム
- 18 細合ピン(係合部材)
- 21 回転子

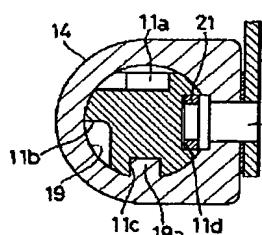
【図1】



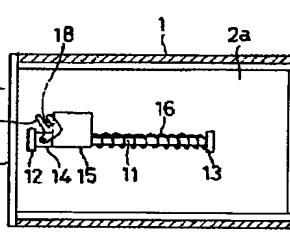
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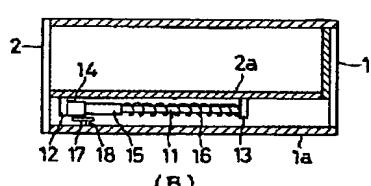
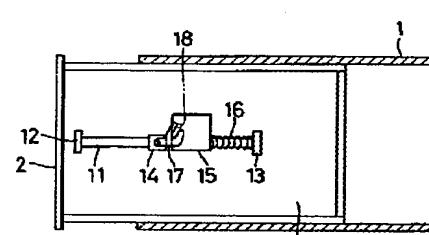
【図3】



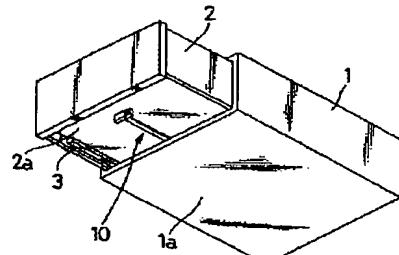
【図4】



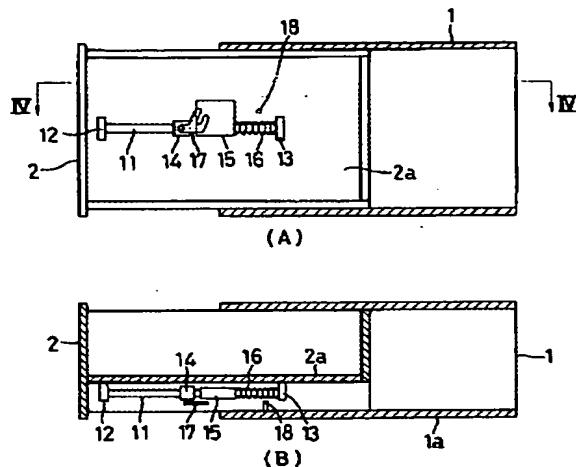
【図5】



【図7】



【図6】



AUTOMATIC DRAWING-IN DEVICE

Patent Number: JP5317133
Publication date: 1993-12-03
Inventor(s): NAKAYAMA YOJIRO
Applicant(s):: SUGATSUNE IND CO LTD
Requested Patent: JP5317133
Application Number: JP19920148396 19920515
Priority Number(s):
IPC Classification: A47B88/00 ; E05F3/14 ; H05K5/02
EC Classification:
Equivalents: JP2712135B2

Abstract

PURPOSE:To enlarge the freedom in the installation position of an automatic drawing-in device by providing it separately from a sliding device.

CONSTITUTION:A first slider 14 and a second slider 15 are provided on a guide rod 11 which is attached on the bottom plate of a drawer so that the sliders 14 and 15 are prevented from turning in line circumferential direction and are free to slide in the axial direction. The second slider 15 has a breaking device inside, and the first slider 14 is equipped with a clutch arm 17 and a rotatable rotor 21. The rotor 21 slides along a recessed part lid, is kept from rotating in it and allowed to rotate in a recessed part lie. A pin 25 provided on a clutch arm 17 is movably inserted in a slot 48 of the second slider 15. A spring 16 is placed between the second slider 15 and a support block 13 to force both sliders 14 and 15 to come close toward a supporting block 12. A connecting pin 18 which is able to be connected to and disconnected from the clutch arm 17 is provided on the bottom plate of an exterior box.

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(71) Applicant: SUGATSUNE IND CO LTD

(72) Inventor: NAKAYAMA YOJIRO

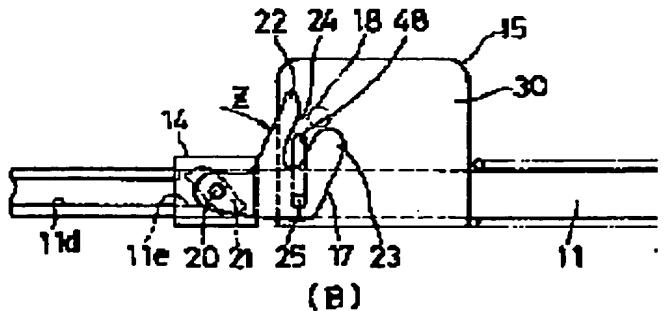
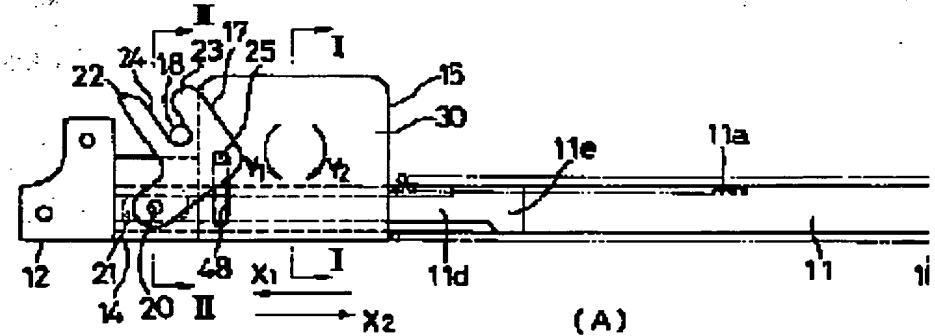
(74) Representative:

(54) AUTOMATIC DRAWING-IN DEVICE

(57) Abstract:

PURPOSE: To enlarge the freedom in the installation position of an automatic drawing-in device by providing it separately from a sliding device.

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